



TACOM

Lethality, Survivability, Mobility and
Sustainment for America's Army

System Integration for the Transformation



Legacy



Brigade Combat Team

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19 June 2001



Future Combat Systems



Outline

- **Introduction to TACOM**
- **TACOM support to Army Transformation**
- **Systems Integration Is...**
- **Systems Integration Process**
- **Advanced Collaborative Environment**
- **Armament System Integrated Data Environment**
- **Summary**



Mission and Vision

ARMY VISION

- ◆ Soldiers on Point for the Nation: Persuasive in Peace, Invincible in War
Responsive, Deployable, Agile, Versatile, Lethal, Survivable, Sustainable

TACOM VISION

- ◆ Providing our soldiers with overwhelming lethality, mobility, and survivability for battlefield dominance.

TACOM MISSION

The US Army Tank-automotive Armaments Command:

- ◆ Provides Ground Combat, Automotive, Marine and Armaments Technologies and Systems
- ◆ Generates, Provides and Sustains Mobility, Lethality, and Survivability for Soldiers, Other Services, and Our Allies



Where We Are...

♦ TACOM - Selfridge

- ♦ TACOM – Warren
- Systems Acquisition
- Life Cycle Management
- Tank-Automotive R&D

- ♦ TACOM - Rock Island
- Life Cycle Management

- ♦ TACOM Worldwide:
- Canada - Egypt
- Germany - Italy
- Korea - Kuwait
- Panama - Saudi Arabia

♦ TACOM - Red River Army Depot

- ♦ TACOM - Picatinny
- Armament Systems Acquisition
- Armament Systems Life Cycle Management
- Armaments R&D

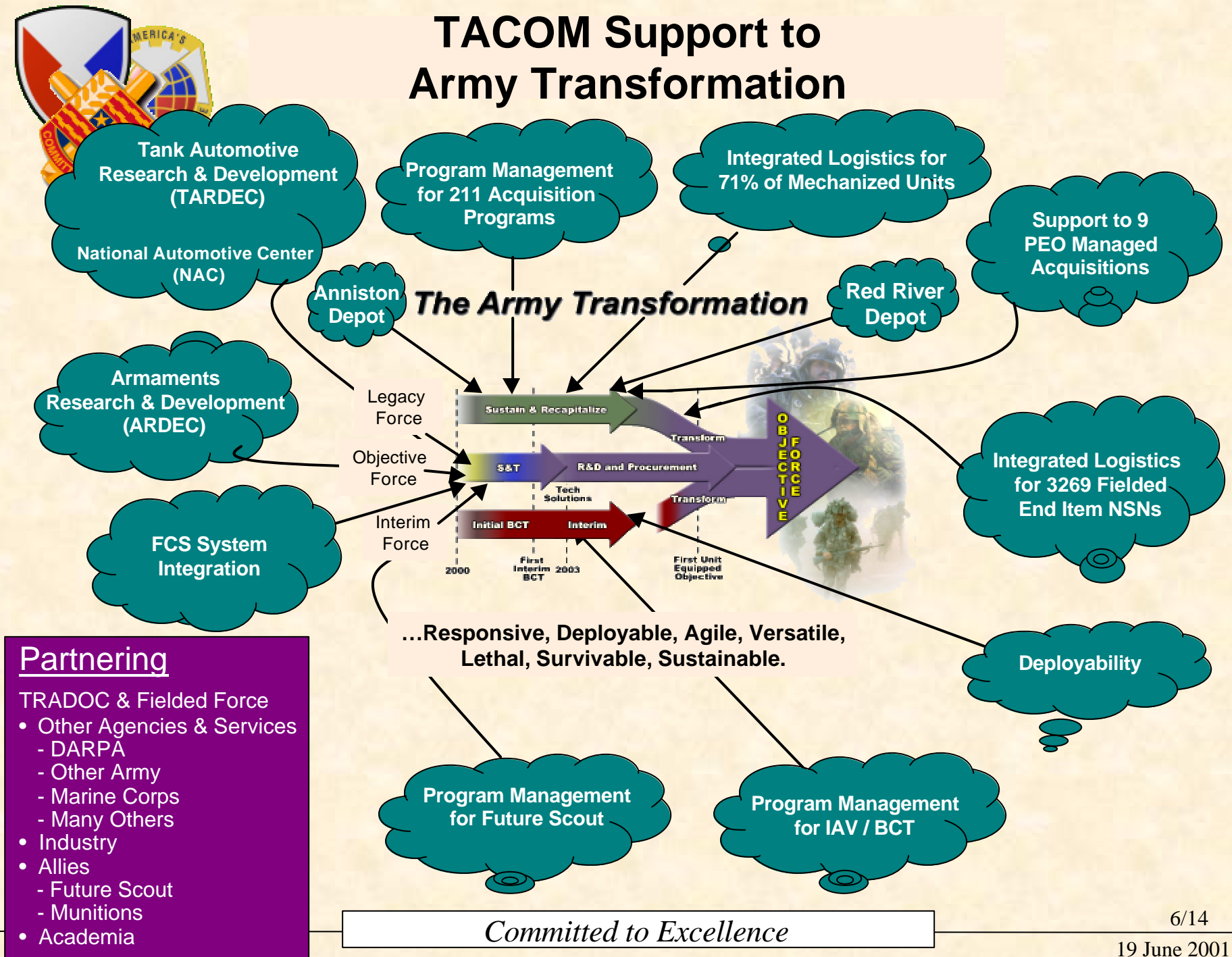
♦ TACOM - Anniston Army Depot

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TACOM Support to Army Transformation



What is FCSReally?

Networked
Command,
Control

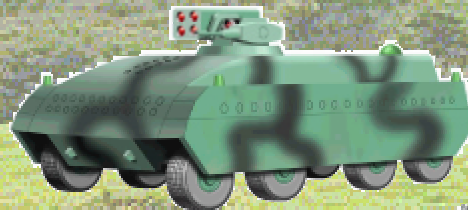


*Indirect Fire
Function**

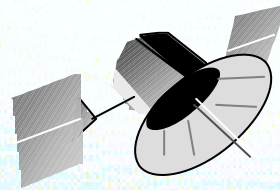


Direct Fire Function

*



Infantry Carrier Function



*Organic & inorganic
RSTA*

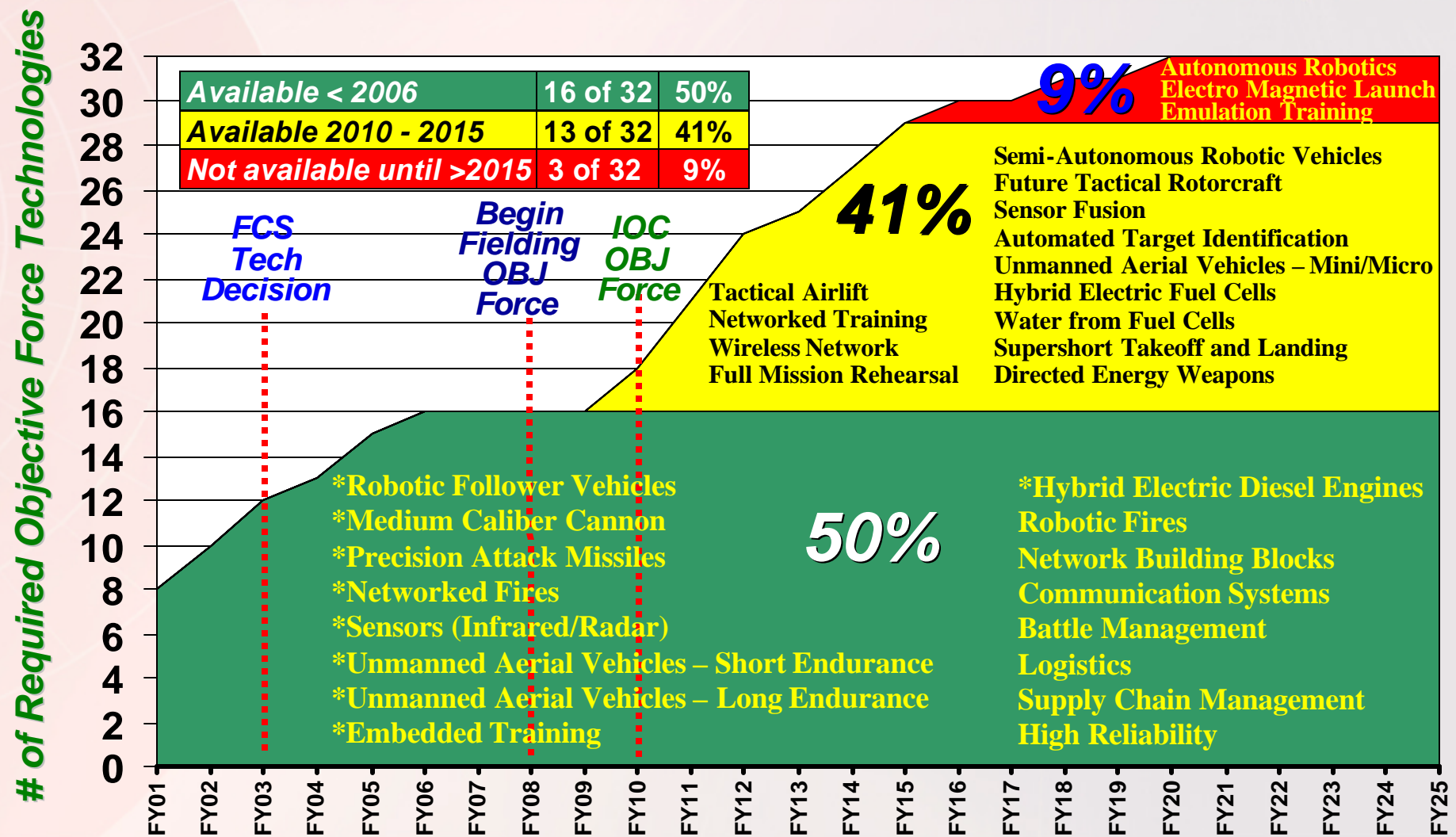


*Sensor Function**

** Manned or unmanned*

Objective Force

Army Science Board S&T Assessment



* Pacing Technologies



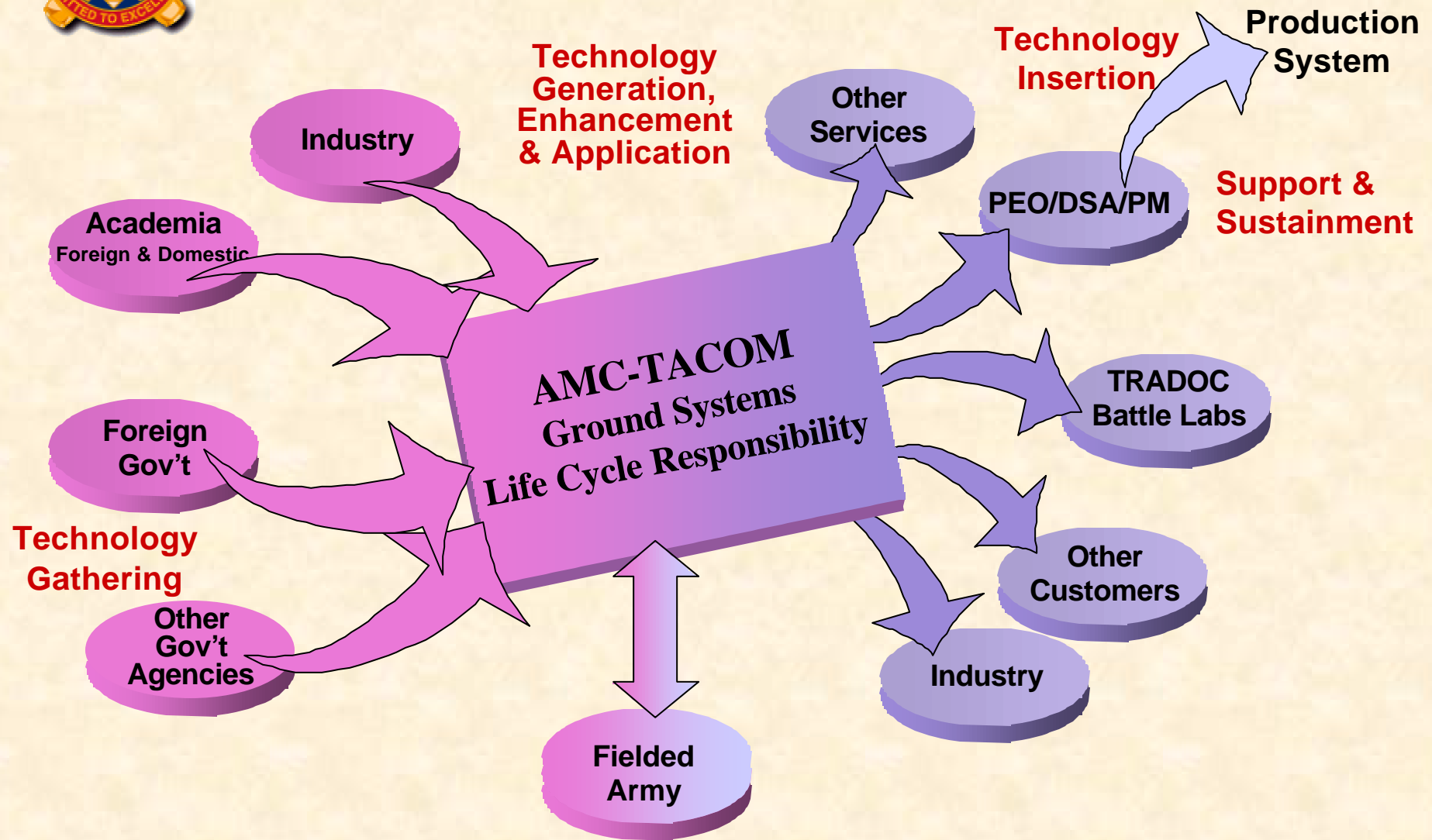
Systems Integration Is...

**Systems Integration Is an
Interdisciplinary & Multifunctional Management Process to
Evolve a Life-cycle Balanced & Optimized Set of System Solutions
That Meet User Requirements**

Best System...Not A Collection Of “Best” Subsystems



Systems Integration Process Leveraging Approach





Systems Integration



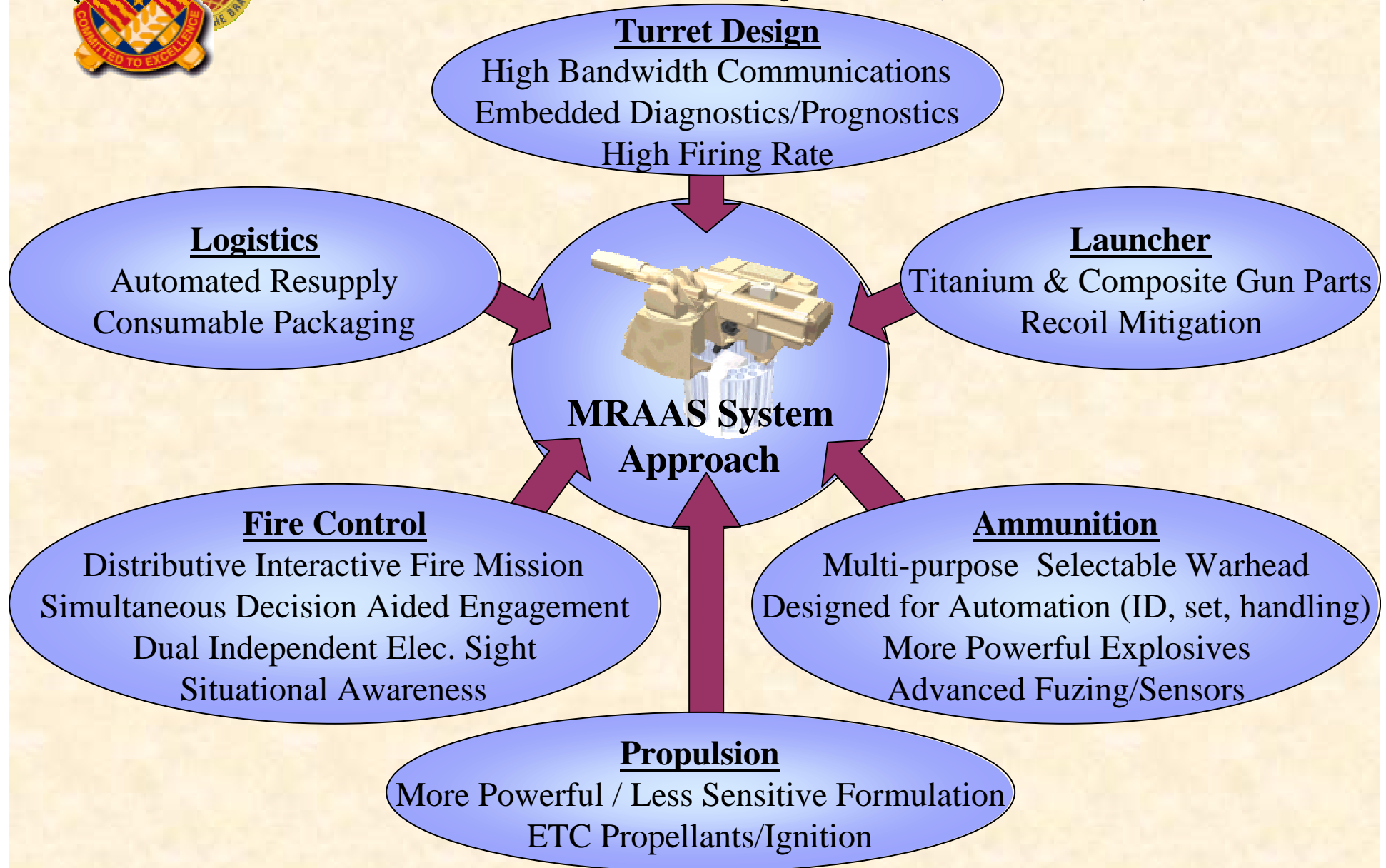
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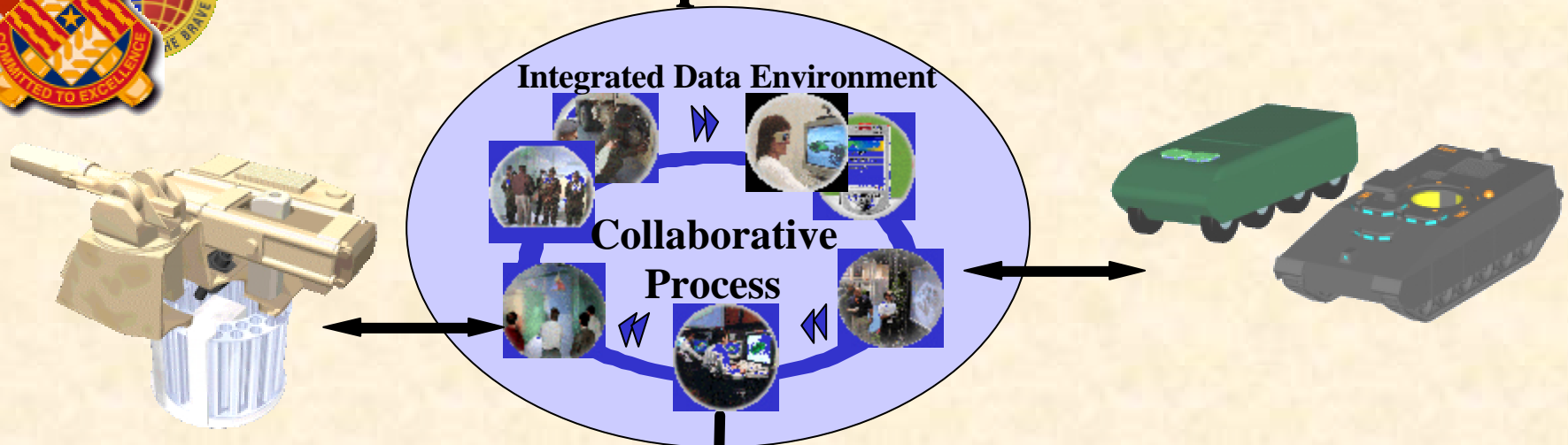


TACOM-ARDEC's Multi-Role Armament and Ammunition System (MRAAS)



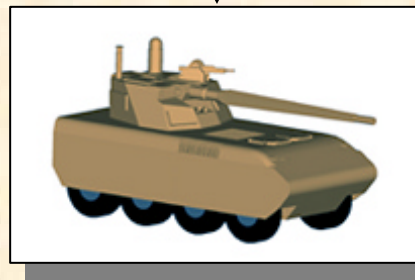


TACOM Systems Integration on Weapon Platforms



FSCS

(Gov't Wheeled Option)



RAVE

(RAPidly CONFIGurable VEHICLE)



**FCS DARPA
Primes**

- TACOM establishing interface requirements with DARPA Primes

- Vehicle Integration
- C4ISR Integration

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Summary

- Systems Integration is a Required Process/Tool That Supports Bringing the Army Together to Produce an Optimal Objective Force
- Systems Integration Requires Sophisticated Tools & Experienced Government Leadership
- Affordability & Performance Across the Life Cycle Requires Robust Up-Front Systems Integration

*FCS Systems Integration Will Be A Substantial Challenge
For The U.S. Army & Its Partners*

AMC-TACOM *Ground Systems Integrator Supporting*

THE ARMY TRANSFORMATION

Web-based Information Framework

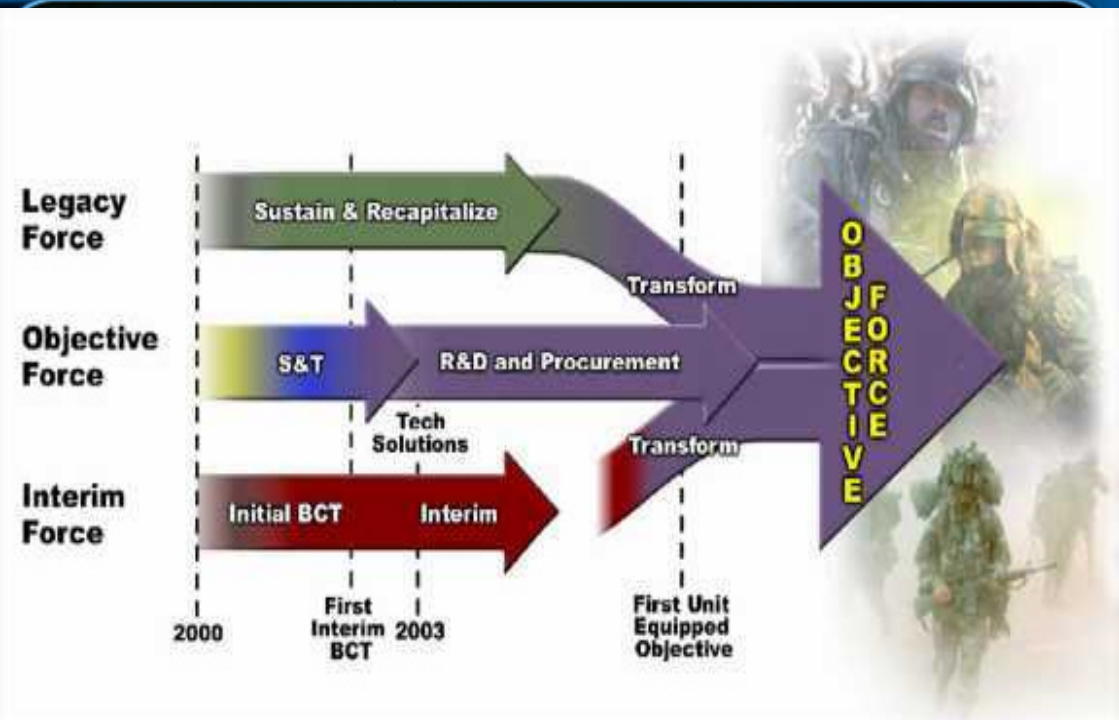


THREE PATHS TO TRANSFORMATION

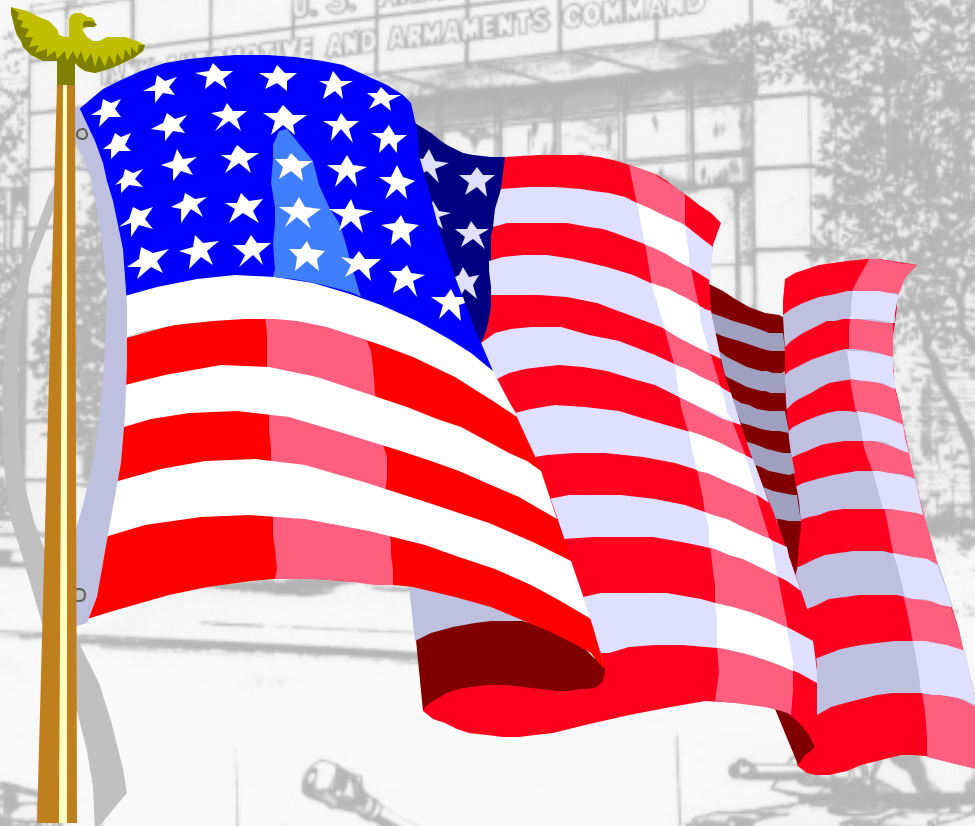
Responsive, Deployable,
Agile, Versatile, Lethal,
Survivable, and Sustainable



3D Virtual Environment



TACOM



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Routinely